

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Jackson, et al.

Application No.: 10/828,395

Filed: 4/19/2004

Title: Method for Treatment of Angiogenic Disorders

Attorney Docket No.: UBC.P-032

Group Art Unit: 1614

Examiner:

Assistant Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants request that the references listed on form PTO 1449, which is attached, be made of record in the US Patent and Trademark Office in the file relating to the above-captioned application. Copies of the listed non-U.S. references are enclosed.

No fees are believed due for this IDS since we have not received an action on the merits. The Commissioner is authorized to charge any fees due in connection with this paper or credit any overpayment to Deposit Account No. 15-0610.

Respectfully Submitted,

Marina T. Larson

Marina T. Larson, Ph.D
Attorney/Agent for Applicant(s)
Reg. No. 32038

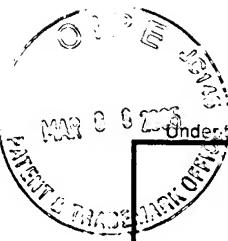
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/828,395		
		Filing Date	4/19/2004		
		First Named Inventor	Jackson et al.		
		Art Unit	1614		
		Examiner Name			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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Attorney Docket Number: HBC-P-0000

U.S. PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		AGRAWAL ET AL., Antisense Therapeutics: is it as simple as complementary base recognition, Molecular Medicine Today, 2000, Page(s) 72-81, Volume 6, Publisher: Elsevier Science Ltd.	
		AOKI ET AL., RNA Interference may be more potent than antisense RNA in human cancer cell lines, Clinical and Experimental Pharmacology and Physiology, 2003, Page(s) 96-102	
		BENNER ET AL., Combination of Antisense Oligonucleotide and Low-Dose Chemotherapy in Hematological Malignancies, Journal of Pharmacological and Toxicological Methods, 1997, Page(s) 229-235, Publisher: Elsevier Science Inc.	
		BORAL ET AL., Clinical evaluation of biologically targeted drugs: obstacles and opportunities, Cancer Chemother Pharmacol, 1998, Page(s) S3-S21, Publisher: Springer-Verlag	
		ANDREA D. BRANCH, A good antisense molecule is hard to find, TIBS, 1998, Page(s) 45-50, Publisher: Elsevier Science Ltd.	
		STEVEN BREM, MD, Angiogenesis and Cancer Control: From Concept to Therapeutic Trial, Cancer Control Journal, 1999, Volume 6, Number 5, Publisher: H. Lee Moffitt Cancer Center & Research Institute	
		BRUCHOVSKY ET AL., Control of Tumor Progression by Maintenance of Apoptosis, www.prostatepointers.org, 1996, Publisher: Wiley-Liss, Inc.	
		BUTTYAN ET AL., Induction of the TRPM-2 Gene in Cells Undergoing Programmed Death, Molecular and Cellular Biology, 1989, Page(s) 3473-3481, Volume 9, Number 8, Publisher: American Society for Microbiology	
		COX ET AL., Angiogenesis and non-small cell lung cancer, Lung Cancer, 2000, Page(s) 81-100, Publisher: Elsevier	
		CROOKE ET AL., Basic principles of antisense therapeutics. Antisense Research and Application, 2004, Page(s) 1-50, Chapter 1, Publisher: Springer	
		DARBY ET AL., Vascular Expression of Clusterin in Experimental Cyclosporine Nephrotoxicity, Exp Nephrol, 1995, Page(s) 234-239, Publisher: S. Karger AG	

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		DIEMER ET AL., Expression of Porcine Complement Cytolysis Inhibitor mRNA in Cultured Aortic Smooth Muscle Cells, The Journal of Biological Chemistry, March 15, 1992, Page(s) 5257-5264, Volume 207, Number 8, Publisher: The American Society for Biochemistry and Molecular Biology, Inc.			
		GENTA, New Data Reaffirm Genta's Molecular Target as Critical Factor for Enhancing Anticancer Treatment, www.genta.com, 2001			
		GLEAVE ET AL., Use of Antisense Oligonucleotides Targeting the Antiapoptotic Gene, Clusterin/Testosterone-Repressed Prostate Message 2, Urology, , Page(s) 39-49, Volume 58			
		GLEAVE ET AL., Antisense therapy: Current status in prostate cancer and other malignancies, Cancer and Metastasis Reviews, , Page(s) 79-92, Volume 21			
		GLEAVE ET AL., Targeting anti-apoptotic genes upregulated by androgen withdrawal using antisense oligonucleotides to enhance androgen- , Investigational New Drugs, , Page(s) 145-158, Volume 20, Number 2, Publisher: XP 009021411			
		GLEAVE ET AL., Antisense Targets to Enhance Hormone and Cytotoxic Therapies in Advanced prostate Cancer, Current Drug Targets, , Page(s) 209-221, Volume 4			
		JEN ET AL., Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies, Stem Cells 2000, 2000, Page(s) 307-319, Volume 18			
		JONES ET AL., Molecules in focus: Clusterin, The International Journal of Biochemistry & Cell Biology, , Page(s) 427-431, Volume 34, Publisher: XP002262319			
		KADOMATSU ET AL., Expression of sulfated glycoprotein 2 is associated with carcinogenesis induced by N-nitroso-N-methylurea in rat prostate... Cancer Res April 1 1993 Page(s) 1460-1463 Volume 53 Number 7			
		KIRBY ET AL, Bartoneilla-associated endothelial proliferation depends on inhibition of apoptosis, PNAS, April 2, 2002, Page(s) 4656-4661, Volume 99, Number 7			
		KYPRIANOU ET AL., bcl-2 over-expression delays radiation-induced apoptosis without affecting the clonogenic survival of human prostate , International Journal of Cancer, January 27, 1997, Page(s) 341-348, Volume 70, Number 3			

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		LEE ET AL., In Vitro Models of Prostate Apoptosis: Clusterin as an Antiapoptotic Mediator, The Prostate Supplement, 2000, Page(s) 21-24, Volume 9, Publisher: Wiley-Liss, Inc.		
		MILLAR ET AL., Localization of mRNAs by in-situ hybridization to the residual body at stages IX-X of the cycle of the rat seminiferous , International Journal of Andrology, 1994, Page(s) 149-160, Volume 17		
		MILLIS ET AL., Clusterin Regulates Vascular Smooth Muscle Cell Nodule Formation and Migration, Journal of Cellular Physiology, 2001, Page(s) 210-219, Volume 186, Publisher: Wiley-Liss, Inc.		
		MILNER ET AL., Selecting effective antisense reagents on combinatorial oligonucleotide arrays, Nature Biotechnology, 1997, Page(s) 537-541, Volume 15		
		MIYAKE ET AL., Antisense TRPM-2 Oligodeoxynucleotides Chemosensitize Human Androgen-independent PC-3 Prostate Cancer Cells Both..., Clinical Cancer Research, 5/1/2000, Page(s) 1655-1663, Volume 6		
		MIYAKE ET AL., Testosterone-repressed Prostate Message-2 Is an Antiapoptotic Gene Involved in Progression to Androgen Independence in..., Cancer Research, 1/1/2000, Page(s) 170-176, Volume 60		
		MIYAKE ET AL., Synergistic Chemosensitization and Inhibition of Tumor Growth and Metastasis by the Antisense Oligodeoxynucleotide...., Clinical Cancer Research, , Page(s) 4245-4252, Volume 7		
		MIYAKE ET AL., Novel therapeutic strategy for advanced prostate cancer using antisense oligodeoxynucleotides targeting antiapoptotic .., International Journal of Urology, , Page(s) 337-349, Volume 8, Number 7, Publisher: XP002262321		
		NÖR ET AL., Engineering and Characterization of Functional Human Microvessels in Immunodeficient Mice, Laboratory Investigation, 2001, Page(s) 453-463, Volume 81, Number 4		
		NOR ET AL., Up-Regulation of Bcl-2 in Microvascular Endothelial Cells Enhances Intratumoral Angiogenesis and Accelerates Tumor Growth, March 1, 2001, Page(s) 2183-2188, Volume 61		
		OPALINSKA ET AL., Nucleic-acid therapeutics: Basic principles and recent applications, Nature Reviews, 2002, Page(s) 503-514, Volume 1		

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		ROSENBERG ET AL., Clusterin: Physiologic and Pathophysiologic Considerations, Int. J. Biochem. Cell Biol., , Page(s) 633-645, Volume 27, Number 7, Publisher: XP001002844			
		SENSIBAR ET AL., Prevention of Cell Death Induced by Tumor Necrosis Factor α in LNCaP Cells by Overexpression of Sulfated Glycoprotein-2 , Cancer Research, , Page(s) 2431-2437, Volume 55, Publisher: American Association for Cancer Research, Baltimore, MD, US, XP002930082			
		TRAN ET AL., A role for survivin in chemoresistance of endothelial cells mediated by VEGF, PNAS, April 2, 2002, Page(s) 4349-4354, Volume 99, Number 7			
		TROUGAKOS ET AL., Silencing Expression of the Clusterin/Apolipoprotein J Gene in Human Cancer Cells Using Small Interfering RNA Induces , Cancer Research, March 1, 2004, Page(s) 1834-1842, Volume 64			
		VICKERS ET AL., Efficient Reduction of Target RNAs by Small Interfering RNA and RNase H-dependent Antisense Agents, The Journal of Biological Chemistry, February 28, 2003, Page(s) 7103-7118, Volume 278, Number 9			
		WILSON ET AL., Clusterin is a secreted mammalian chaperone, Trends in Biological Sciences, 3/1/2000, Page(s) 95-98, Volume 25, Number 3, Publisher: Elsevier Science, Ltd., XP004202536			
		WONG ET AL., Molecular characterization of human TRPM-2/clusterin, a gene associated with sperm maturation, apoptosis and neuro..., European Journal of Biochemistry, , Page(s) 917-925, Volume 227, Number 3, Publisher: XP 001146404			
		WRIGHT ET AL., A ribonucleotide reductase inhibitor, MDL 101,731, induces apoptosis and elevates TRPM-2 mRNA levels in human prostate , Experimental Cell Research, January 10, 1996, Page(s) 54-60, Volume 222, Number 1			
		YANG ET AL., Nuclear clusterin/XIP8, an x-ray-induced Ku70-binding protein that signals cell death, PNAS, May 23, 2003, Page(s) 5307-5312 Volume 97 Number 11			
		ZANGEMEISTER-WITKE ET AL.. A Novel Bispecific Antisense Oligonucleotide Inhibiting Both bcl-2 and bcl-xL Expression Efficiently Induces, Clinical Cancer Research, 6/1/2000, Page(s) 2547-2555, Volume 6			
		ZELLWEGER ET AL., Antitumor Activity of Antisense Clusterin Oligonucleotides is Improved in Vitro and in Vivo by incorporation of....., The Journal of Pharmacology and Experimental, 5/11/2001, Page(s) 934-940, Volume 298, Number 3			

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